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=> sea (ZnO OR zinc oxide)

104123 ZNO

11 ZNOS

104127 ZNO

(ZNO OR ZNOS)

643999 ZINC

139 ZINCS

644024 ZINC

(ZINC OR ZINCS)

1808909 OXIDE

351382 OXIDES

1908083 OXIDE

(OXIDE OR OXIDES)

104423 ZINC OXIDE

(ZINC(W)OXIDE)

L1 148409 (ZNO OR ZINC OXIDE)

=> sea L1 and (Al OR aluminum) and doped

1015815 AL

5693 ALS

1021186 AL

(AL OR ALS)

1004800 ALUMINUM

305 ALUMINUMS

1004863 ALUMINUM

(ALUMINUM OR ALUMINUMS)

302540 DOPED

2 DOPEDS

302541 DOPED

(DOPED OR DOPEDS)

L2 2961 L1 AND (AL OR ALUMINUM) AND DOPED

=> sea L2 and nano?

448599 NANO?

L3 245 L2 AND NANO?

=> sea L3 and (nanorod OR nanonail OR nanowire)

3279 NANOROD

4978 NANORODS

5303 NANOROD

(NANOROD OR NANORODS)

16 NANONAIL

24 NANONAILS

27 NANONAIL

(NANONAIL OR NANONAILS)

10647 NANOWIRE

14055 NANOWIRES

14708 NANOWIRE

(NANOWIRE OR NANOWIRES)

L4 28 L3 AND (NANOROD OR NANONAIL OR NANOWIRE)

=> d 1-28 IALL

L4 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:1087474 CAPLUS <<LOGINID::20071101>>

ENTRY DATE: Entered STN: 27 Sep 2007

TITLE: Room-temperature optical properties of ***Al*** -
doped ***ZnO*** ***nanowire*** array

AUTHOR(S): Bin, Tang; Hong, Deng; Shui, Zheng-Wei; Min, Wei;
Chen, Jin-Ju; Xin, Hao

CORPORATE SOURCE: School of Science Southwest Petroleum University,
Chengdu, 610500, Peop. Rep. China

SOURCE: Wuli Xuebao (2007), 56(9), 5176-5179

CODEN: WLHPAR; ISSN: 1000-3290

PUBLISHER: Zhongguo Kexueyuan Wuli Yanjiuso

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

CLASSIFICATION: 73 (Optical, Electron, and Mass Spectroscopy and Other
Related Properties)

ABSTRACT:

Al - ***doped*** ***ZnO*** ***nanowire*** arrays were
synthesized with Au catalysis on Si(100) substrate using the chem. vapor
deposition technique. Only (002) diffraction peaks of ***ZnO*** can be
found in the XRD patterns of the samples, which shows that the as-grown
nanowires are highly cryst. in nature and grow along the [001]
direction. The SEM images show that the ***ZnO*** ***nanowires*** are
perpendicular to the substrate surface. Room-temp. photoluminescence (PL)
measurement shows 3 near band-edge emission peaks at 373, 375 and 389 nm.
Anal. shows that the band gap of ***Al*** - ***doped*** ***ZnO***
nanowires is 3.343 eV and the exciton binding energy is 0.156 eV.
Room-temp. PL spectrum of pure ***ZnO*** ***nanowires*** shows 3 near
band-edge emission peaks at 377, 379 and 389 nm. The band gap of pure
ZnO ***nanowires*** is 3.301 eV and the exciton binding energy is
0.113 eV, which shows that the band gap increases due to ***Al*** doping.

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